

Rectal Sensory-Motor Alterations: A Clinical Perspective on Anorectal Disorders

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Table2 Variations of rectal motility in different rectal sensations of different diseases.

Constipation		Sensitive group	Normal group	Insensitive group
FCSV	Anal resting pressure, median (interquartile range)	79 (36.8)	79.8 (30.5)	88.45 (35.1)
	Maximum squeezing pressure, median (interquartile range)	150.5 (71.6)	159.1 (74.7)	181.95 (78.53)
	Rectoanal gradient, median (interquartile range)	-30.8 (40.8)	-41.1 (46.1)	-49.25 (49.5)
	Manometric defecation index, median (interquartile range)	0.67 (0.38)	0.59 (0.31)	0.55 (0.31)
DDV	Anal resting pressure, median (interquartile range)	81 (34.05)	77.7 (34.45)	82.4 (33.98)
	Maximum squeezing pressure, median (interquartile range)	147.35 (70.33)	159.6 (80.28)	169 (78.88)

	Rectoanal gradient, median (interquartile range)	-31.55 (48.13)	-34.6 (220.4)	-43.4 (50.08)
	Manometric defecation index, median (interquartile range)	0.65 (0.37)	0.65 (0.37)	0.58 (0.32)
MTV	Anal resting pressure, median (interquartile range)	80.6 (33.9)	80.3 (39.3)	80.45 (35.2)
	Maximum squeezing pressure, median (interquartile range)	159.4 (78)	184.9 (70.7)	165.5 (78.78)
	Rectoanal gradient, median (interquartile range)	-36.6 (46)	-40.6 (46.7)	-39.2 (51.25)
	Manometric defecation index, median (interquartile range)	0.62 (0.34)	0.62 (0.31)	0.59 (0.33)

Fecal incontinence		Sensitive group	Normal group	Insensitive group
FCSV	Anal resting pressure	61.83±31.75	57.5±23.82	61.42±12.52
	Maximum squeezing pressure, median (interquartile range)	104.4 (119.3)	99.3 (55.32)	83.35 (82.58)
	Rectoanal gradient, median (interquartile range)	-21.25 (31.1)	-33.4 (47.68)	-53.9 (38.43)
	Manometric defecation index, median (interquartile range)	0.67 (0.25)	0.64 (0.44)	0.41 (0.32)
DDV	Anal resting pressure	65.34±31.06	60.76±27.45	55.53±19.42
	Maximum squeezing pressure, median (interquartile range)	104.4 (92.03)	103.3 (78.48)	83.35 (106.1)

	Rectoanal gradient, median (interquartile range)	-27.9 (43.5)	-38.45 (48.53)	-21.05 (41.55)
	Manometric defecation index, median (interquartile range)	0.67 (0.32)	0.58 (0.43)	0.68 (0.41)
MTV	Anal resting pressure, median (interquartile range)	47.55 (44.52)	49.5 (22.4)	60.8 (38)
	Maximum squeezing pressure, median (interquartile range)	91.15 (94.68)	153.7 (141.55)	97.8 (57.7)
	Rectoanal gradient, median (interquartile range)	-27.25 (35.68)	-20.5 (45.95)	-37.3 (46.1)
	Manometric defecation index, median (interquartile range)	0.63±0.26	0.86±0.64	0.60±0.25

Rectal cancer		Sensitive group	Normal group	Insensitive group
FCSV	Anal resting pressure, median (interquartile range)	66.25 (48.68)	72.3 (36.43)	68.9 (29.1)
	Maximum squeezing pressure, median (interquartile range)	138.25 (72.45)	170.55 (95.35)	166.2 (73.9)
	Rectoanal gradient, median (interquartile range)	-20.45 (26.98)	-32.1 (38.03)	-27.6 (32.4)
	Manometric defecation index, median (interquartile range)	0.67 (0.38)	0.65 (0.37)	0.66 (0.32)
DDV	Anal resting pressure, median (interquartile range)	71 (44.2)	64.1 (51.7)	68.9 (27.15)
	Maximum squeezing pressure, median (interquartile range)	148.3 (95.8)	179.5 (102)	173.1 (76.95)

	Rectoanal gradient, median (interquartile range)	-29.5 (31)	-20 (35)	-30.2 (36.05)
	Manometric defecation index, median (interquartile range)	0.66 (0.36)	0.72 (0.27)	0.64 (0.3)
MTV	Anal resting pressure, median (interquartile range)	64.1 (48.7)	71 (38.2)	76.4 (25.35)
	Maximum squeezing pressure, median (interquartile range)	165.8 (85.9)	143 (112.5)	167.1 (81.7)
	Rectoanal gradient, median (interquartile range)	-21.1 (34.2)	-12.6 (32.9)	-35.3 (27.05)
	Manometric defecation index, median (interquartile range)	0.71 (0.34)	0.85 (0.42)	0.6 (0.21)

After rectal cancer surgery		Sensitive group	Normal group	Insensitive group
FCSV	Anal resting pressure		77.53±31.93	65.51±26.27
	Maximum squeezing pressure		169.81±77.95	161.68±36.9
	Rectoanal gradient		-18.53±42.19	-4.14±39.48
	Manometric defecation index		0.81±0.51	1.01±0.54
DDV	Anal resting pressure	64.83±24.41	79.65±35.66	67.62±25.07
	Maximum squeezing pressure	135.73±55.72	192.25±72.24	155.16±41.91
	Rectoanal gradient	-1.14±45.23	-26.87±37.13	-4.46±38.06

	Manometric defecation index	1.03±0.59	0.76±0.47	0.94±0.52
MTV	Anal resting pressure	64.7±29.49	76.48±44.15	73.6±22.26
	Maximum squeezing pressure	158.62±53.9	65.88±15.41	80.58±30.28
	Rectoanal gradient	17.28±45.52	171.33±77.3	164.04±63.24
	Manometric defecation index	1.27±0.65	-10.55±17.7	-31.54±32.68

Rank correlation is expressed as median (quartile).

Variance and t-test correlation are expressed as mean plus minus standard deviation.